### MILITARY STANDARD

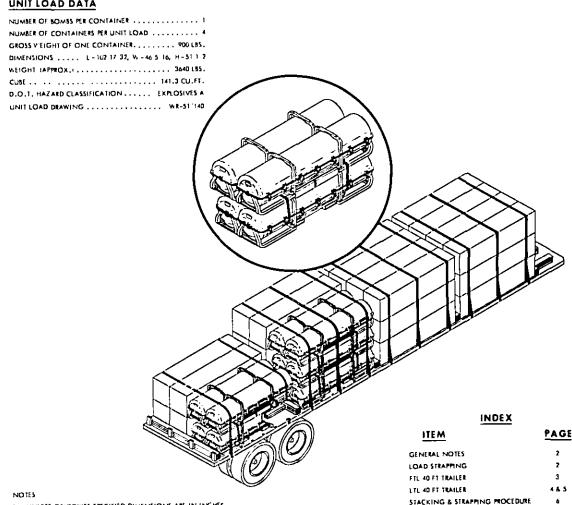
## TRUCKLOADING OF HAZARDOUS MATERIALS

BOMB CLUSTER MK 20 MODS 2,3,44 IN CONTAINER MK 427 MOD 0 FLEET ISSUE UNIT LOAD

## MIL-STD-1320-65 (NAVY)

7 JUNE 1974 SUPERSEDING-WR-51 '65A 5 SEPTEMBER 1968

#### UNIT LOAD DATA



1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

FOR CROSS REFERENCE TO ASSOCIATED PALLETIZING, TOR CROSS REFERENCE TO ASSOCIATED FALLETIZING, CONTAINER, OADING AND CARLOADING MILITARY STANDARDS, REFER TO INDEX TO STANDARDS, MIL-HDBK-236 INAVY).

FSC 8140

AUTHORIZED AND RELEASED
FOR HIGHWAY SHIPMENTS
ONLY

AMHL SIGNATURE TEÉHNICAL DIRECTION AGENT [TDA] DATE DATE SIGNATURE AIRSYSCOM BY DIRECTION

**ORIGINATOR** 

5/2/74 He Pride

WEAPONS HANDLING LABORATORY NAVAL

NAD EARLE, NEW JERSEY

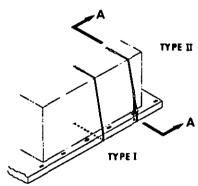
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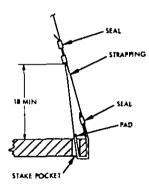
### MIL-STD-1320-65 (NAVY)

### GENERAL NOTES

- 1. THE DOCUMENT GIVES DETAILED IN THE COOK FOR THE CLOUDE BOMB OF 2 AND MODS... IN A IN. C. MACHES THE 42 HODIS. CONTAINED SHALL BE UNITED FORMING THE FLEET DOCUMENT OF ADVISOR OF 40.
- 2. THE PROCEDURES AND PRACTICES DESCRIBED HEREIN ARE INSTRUDED FOR 4 FT FLATBED TRAILER, VITH THE TRAILER. TANDEM ARISE LOCATED IN THE MESTERN COLITION. AT THE EXTREME PRARIER FRANCE TRAILER. DOI 14. THOSE TRAILER. JOHN METAL FACE.
- D. WHEN REQUIRED BY THE STANDARD, THE ADDITIONAL CONTAINER, ARE STRAPPED TO A FLEET HIGH HARD LOCAL. THEN THE TOTAL TRANSFORMATION CYCLE IS COMPLETED, THE TOP AND CONTAINER, ARE PENCYED BY CONTINUED THE TOP SPAPS AND SEMENAL. THE EXTRAINERS. THE LOCAL CONTAINER, ARE INSTITUTED PER MINISTER THE LOCAL CONTAINER, THE LOCAL CONTAINER, ARE INSTITUTED PER MINISTER THE LOCAL CONTAINER.
- 4. FOR STACKING AND STRAFFING PROCEDURE JECHNING THE TWO CONTAINER. TO THE FLEFT IS DIE UNIT LOAD, SEE PACK AS
- 5. CHAIN, AND STEEL STRAP, MAY BE LED DISTERCHANGEABLY FOR TIE-DOWN! Of A 1 TO BASIS
- 6. STEEL STRAPS SHALL BE 2 . ..... AND APPLIED AS SPECIFIED BY THE LOAD STRAPPING REGISTEMENT. BELOW
- 7. WHEN USING CHAIN, INSERT A PROTECTOR ACARD (LAMINATED DOUBLE 2 C BETWEEN CHAIN AND LADING, SECURE CHAIN TO THE BOARD WITH FOUR 204 NAILS BY DRIVING THE CHAIN THE CHAIN INTO THE BOARD AND CUINCHING IT O VER THE CHAIN.
- B. THE CHAINS AND LOAD BINDERS SHALL MEET THE FOLLOWING CONDITIONS
  - B. CHAIN AND FITTINGS SHALL BE DIS INCH AND LOAD BINDERS I BINCH CAPACITY.
  - B. CHAINS, FITTINGS, AND LOAD BINDERS SHALL HAVE MINIMUM SAFE WORKING LOAD OF 5000 LBS.
  - c. LOAD BINDERS SHALL BE SAFETY WIPED WITH 16 CAUGE SOFT ANNEALED IRON WIRE OF SECURED USING THE ENFIRECE OF THE 3 B CHAIN.
- 9. PRIOR TO LOADING THE TRAILER AND DURING THE PRELOADING INSPECTED REQUIRED BY NAVORD OF 2165 AND REPORTED ON DD FORM 626, THE CHAINS, FITTINGS, AND LOAD BINDERS SHALL BE INSPECTED FOR STRETCH, GOUGING, BENT LINKS, WEAR AND ANY OTHER NOTICEABLE DEFECTS. THE INSPECTOR SHALL CONFIRM THAT THE CHAINS AND LOAD BINDERS HAVE BEEN INSPECTED AND SHALL SO NOTE IN ITEM NO. 22 OF DD FORM 626. ANY DEFICIENCY SHALL BE CAUSE FOR REJECTION OF A CHAIN OR LOAD BINDERS.
- ID. THE MAXIMUM GROSS WEIGHT OF THE TRACTOR-TRAILER AND THE ALLOWABLE AXLE WEIGHTS ARE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THESE LIMITATIONS AND THE SHIPPER SHALL LOAD THE TRAILER IN WICH A MANNER THAT THE TRACTOR-TRAILER WILL NOT EXCEED THESE LIMITATIONS.
- 11. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS TO AN ACCESSIBLE AREA AND ATTACH EXPLOSIVES AT PLACARD TO BOTH SIDES, FRONT AND BACK OF TRAILER.
- 12. APPLICABLE MATERIAL SPECIFICATIONS DUNNAGE LUMBER, MM-L-751 NAILS, FF-N-105, TYPE II. STYLE 10, COMMON 891GHT OR STRAPPING QQ-5-781, TYPE I, CLASS A.
- 13. FOR GENERAL TRUCKLOADING PROCEDURES REFER TO THE GENERAL TRUCKLOADING DOCUMENT, MIL-STD-1320

# LOAD STRAPPING





SECTION A-A

#### TIE DOWN STRAPPING

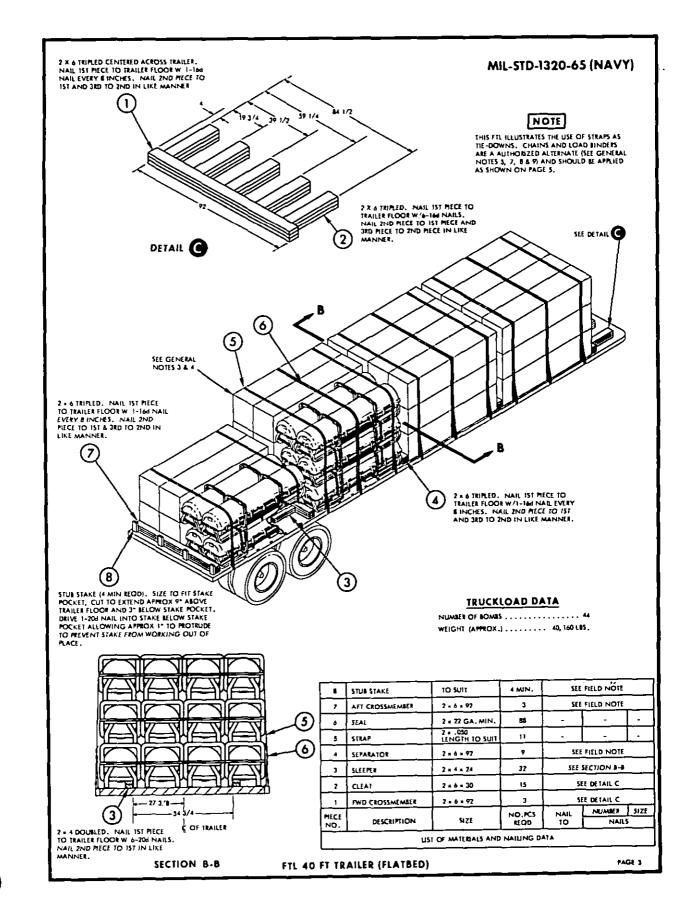
THE FOLLOWING TWO METHODS OF TIE-DOWN STRAPPING ARE APPROVED FOR USE WITH THE SHIPMENT OF LOAD'S ON FLATBED TRAILERS.

STEEL STRAPPING SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION GG-5-781. STRAP JOINTS SHALL HAVE A MINIMUM TENTILE

STRENGTH EQUAL TO 75 PER CENT OF THE STRAP STRENGTH. FOR EACH OF THE TYPES ILLUSTRATED ABOVE IT IS PREFERRED TO POSITION,
TENSION AND DOUBLE CRIMP THE STRAP SEALS AT THE TOP OF THE LOAD, IF PRACTICABLE

- TYPE I CONTINUOUS STRAFFING AROUND THE FLATSED AND THE LOAD.
- TYPE II THE STRAPPING IS SECURED TO THE STAKE POCKETS, ONE PIECE ON EACH SIDE OF THE TRAILER, AND IS BROUGHT UP OVER
  THE LOAD, TENSIONED, AND SEALED WITH TWO DOUBLE-CRIMPED SEALS ON THE TOP. METHOD OF SECURING STRAPPING
  TO STAKE POCKET IS SHOWN IN SECTION A-A. THE SHORT END IS ON THE INSIDE AND IS SECURED WITH TWO DOUBLECRIMPED SEALS AT A MINIMUM OF IB INCHES ABOVE THE TRAILER BED. A STAKE POCKET PAD IA SHORT PIECE OF THE SAME
  STRAPPING TB INCHES LONG! IS INSERTED BETWEEN THE MAIN STRAP AND THE STAKE POCKET AND IS SECURED TO THE
  MAIN STRAP WITH A SEAL AS SHOWN.

PAGE 2



### MIL-STD-1320-65 (NAVY)

# LTL 40 FT TRAILER (FLATBED)

- WHEN REGURD TO THE LEFT STRANGE (CALLAND), A SECTION CONNECT LOAD PATTERN FOR THE CONTRACT OF TAIL TO BE OF SHIPPED FROM TABLE LAND FOUND ON THE UNIT COAD, COLUMN MAILER ACCORDINGS 1.
- 2. WHEN LOADING 1, 9 GR 1, UNIT LOADY, BLOCK AND BRACE AS THE 2 NOT NEFACE 1, AD INSTITUTE NOTICE IN NIT LEAD AS REGULARD.

### NOTE

STACK FOR CONTAINER HIGH PEGINE THE DEVIN, CHAIRTING WISTPAPP .
ALL OTHER STACK FOR DINES 2 THE DOCK FOR.

- 3. WHEN LOADING 7 UNIT LOADS, BLOCK AND PHACE AS THURN ON HAGE ...
- 4. WHEN LOADING 6 OR LESS SMIT LOADS BLOCK AND REACE USING THE PRINCIPLE SHOWS LOW PAGE 1. THE DETAIL C, PAGE 3. OR DETAIL D, PAGE 4 AT THE PEAR OF THE LOAD AS ASPECIPRIATE.
- 5. WHEN THE LOAD FLAN REQUIRES THE STACK TO BE 1.5 INJECTION HIGH CHARGE CONTAINING MICH. THEY MALL BE STRAFFED TOGETHER AS SHOWN ON PAGE 6. BLOCK, BRACE AND TIE-DOWN AS PROCEED DURINAGE.
- 6. THE LTL SHOWN ON FAGE 5 INFORMENEN UNIT LOAD, AND SHOWN THE CORRECT BLE CRITIC, BRACING, AND 1.5 OF TIED, 2.52 FOR ALICAD OF THIS GUALITY.
- 7. ACTUAL SHIPPING REGUIREMENTS WILL DETERMINE THE NUMBER OF UNIT LOADS TO BE SHIPPED. THE COAD FATTERN, BLOCKING, BEACING AND TRE-DOWN'S SHALL BE IN ACCORDANCE VITH THE APPROPRIATE FARTS OF THIS MILITARY STANDARD AND THE GENERAL TRUCKLOADING DOCUMENT, MILISTOSIDE SHARY.

#### TABLE I

				IABLE I				
NO. OF UNIT LOADS	LOAD PATTERN <sup>H</sup>	FWD	NO, OF UNIT LOADS	LOAD PATTERN #	FWD	NO. OF JINIT LOADS	LOAD PATTERN #	FWD
10 1	┩	.5	7 1			٠[	1	
9 1	<del>┦┣━━─┤┣</del> ━━━━	.5	٥	1 1 1		3		
8 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	5	1 1 1		2	E	
		MUM THAT	IER IN THE BLOCK LOADS IN THE ST THE STACK IS 1.5	FLOOR PLAN FOR THE LOAD, 5 IS THE NUMBER OF LAYERS ACK. THE NUMBER 1,3 INDH UNIT LOADS HIGH (OR THE EE GENERAL NOTES 3 & 4, PA	OF CATES E	1		

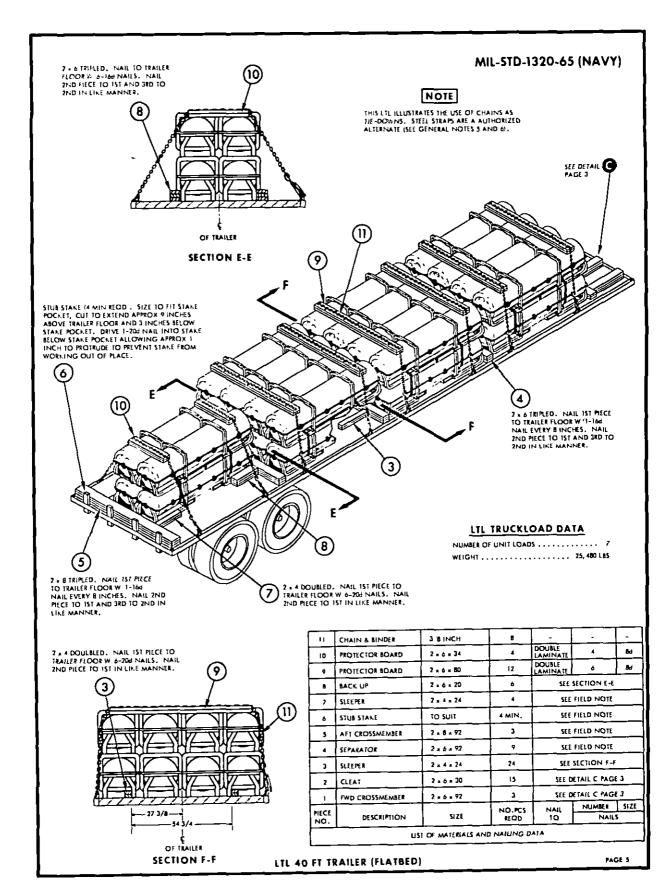
2 = 6 TRIPLED CENTERED ACROSS TRAILER,
NAIL 1ST PIECE TO TRAILER FLOOR W 1-16d
NAIL EVERY BINCHES, NAIL 2ND PIECE TO
1ST AND 3RD TO 2ND IN LIKE MANNER.

19 3/4

2 - 6 - 3E TRIPLED, NAIL 1°T FIECE TO
TRAILER FLOOR W, 6-16d NAIL', NAIL
2ND PIECE TO 1ST PIECE AND 3rD PIECE
TO 2ND PIECE TO 1ST PIECE AND 3rD PIECE
TO 2ND PIECE TO 1ST PIECE AND 3rD PIECE
TO 2ND PIECE ITO 1ST PIECE NAILS.

DETAIL D

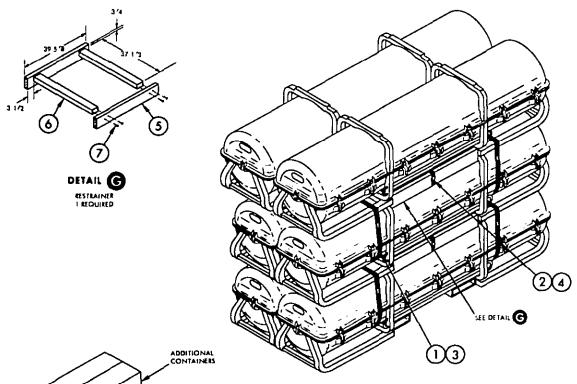
FRONT AND REAR BLOCKING ISEE LTL NOTE 4

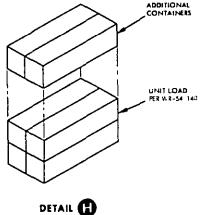


### MIL-STD-1320-65 (NAVY)

# STACKING AND STRAPPING PROCEDURE

- 1. POSITION TWO G. CONTAINED, ON TORICE UNIT LOAD DECENTAINER + JING CAPE TO ALIGN. TACKING PARIT  $_{-}$  32 DETAIL HIAND MAIN MEM.
- 2. POSITION STRAFFING, ITEM 1. UNDER THE PODY OF THE CENTER LAYER OF CONTAINER, AND OVER WID, OF TOO TOO CONTAINER, ITEMS ON AND DOUBLE CROPP SEAL ITEM .
- PARTIALLY ACCEMPLE RESTRAINED DETAIL G. AS SHOWN, INCRET RESTRAINER SPACES, THROUGH FIGHT IN EVET IN THE TWO CONTAINERS, ASSEMBLE REMAINING FIELD ITEM 5. STRAP ITEM 5 TOGETHER WITH ITEMPRISED STEM, THREADING STRAP BETWEEN LAYERS OF CONTAINERS. TENDION STRAPPING AND DOUBLE CRIMP SEAL STEM 4.





е	,		CUVE III SID	FF-24-103	104
2	6	RESTRAINER SPACER	WOOD DRESSED	MIL-37D-701	2.

REQ.	ITEM	DESCRIPTION	MATIL	MAT'L SPEC.	DIMENSIONS
2	1	STRAPPING	STEEL ZINC CID	GG-5-781 TY, 1 CL. 8	11 4
1	2	STRAPPING	STEEL SINC CID	QQ-5-781 TY, 1 CL. B	9 FT. 6
2	3	SEAL	STEEL ZINC CTD	COM L	1 1 4 = 22 GA, MIN
1	4	SEAL	STEEL ZING CTD	COM L	3 4 x 22 GA, MIN.
2	5	RESTRAINER	WOOD DRESSED	F.L-570-731	2 = 6 = 29 5 8
2	6	RESTRAINER SPACER	DRESSED	MIL -STD-701	2 · 4 · 24 1 g

 $^{\#}$  ,031 COLD ROLLED, HEAT TREATED MAY BE SUBSTITUTED.

LIST OF MATERIALS

REVIEW ACTIVITY: NAVY - OS, AS PREPARING ACTIVITY-NAVY = 05 (PROJECT NO. 8140-N 233